

FORM PTO-1449 (modified)  
To: U.S. Department of Commerce  
(PW FORM PAT-1449)  
Patent and Trademark Office

Atty.  
Dkt. No.

M#

Client Ref.

0274516

GNC22US

Applicant: ELLIS

Application No.: Unknown

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Date: August 24, 2001

Page

1

of

6

Examiner: Unknown Dinh Group Art Unit: Unknown

## U.S. PATENT DOCUMENTS

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
AL	AR 4,827,508	05/1989	SHEAR			
	BR 4,918,596	04/1990	NAKANO			
	CR 4,969,092	11/1990	SHORTER			
	DR 5,025,369	06/1991	SCHWARTZ			
	ER 5,031,089	07/1991	LIU et al.			
	FR 5,103,393	04/1992	HARRIS et al.			
	GR 5,109,329	04/1992	STRELIOFF			
	HR 5,109,512	04/1992	BAHR et al.			
	IR 5,136,708	08/1992	LAPOURTE et al.			
	JR 5,155,808	10/1992	SHIMIZU			
	KR 5,291,494	03/1994	BRUCKERT et al.			
	LR 5,341,477	08/1994	PITKIN et al.			
	AR 5,349,682	09/1994	ROSENBERRY			
	MR 5,357,632	10/1994	PIAN et al.			
	NR 5,361,362	11/1994	BENKESER et al.			
	OR 5,381,534	01/1995	SHI			
	PR 5,392,400	02/1995	BERKOWITZ et al.			
	QR 5,410,651	04/1995	SEKIZAWA et al.			
	RR 5,426,741	06/1995	BUTTS, JR. et al.			
	SR 5,428,783	06/1995	LAKE			
	TR 5,457,797	10/1995	BUTTERWORTH et al.			
	UR 5,515,511	05/1996	NGUYEN et al.			
	VR 5,522,070	05/1994	SUMIMOTO			
	WR 5,546,594	08/1996	WAZUMI			
	XR 5,550,984	08/1996	GELB			
	YR 5,568,375	10/1996	RAUSCH			
	BR 5,572,643	11/1996	JUDSON			
	ZR 5,586,121	12/1996	MOURA et al.			
	CR 5,590,284	12/1996	CROSETTO			
	AAR 5,594,491	01/1997	HODGE et al.			
	BBR 5,608,448	03/1997	SMORAL et al.			
	CCR 5,615,127	03/1997	BEATTY et al.			
	DDR 5,666,484	09/1997	ORIMO et al.			
	EER 5,678,028	10/1997	BERSHTEYN et al.			
	DR 5,680,548	10/1997	TRUGMAN			
	ER 5,696,902	12/1997	LECLERCQ et al.			
	FFR 5,710,884	01/1998	DEDRICK			
	GGF 5,748,489	05/1998	BEATTY et al.			

Examiner

D. D. M.

Date Considered:

9/30/01

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw in through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified)  
To: U.S. Department of Commerce  
(PW FORM PAT-1449)  
Patent and Trademark Office

Atty. Dkt. No.	M#	Client Ref.
	0274516	GNC22US

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Applicant: ELLIS  
Application No.: Unknown

Date: August 24, 2001 Page 2 of 6 Examiner: Unknown-Dib Group Art Unit: 2522 Unknown

## U.S. PATENT DOCUMENTS

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
<i>AR</i>	5,758,077	05/1998	DANAHY et al.			
<i>BR</i>	5,758,345	05/1998	WANG			
<i>CR</i>	5,761,507	06/1998	GOVETT			
<i>FR</i>	5,774,668	06/1998	CHOQUIER et al.			
<i>DR</i>	5,790,431	08/1998	AHRENS, Jr. et al.			
<i>GR</i>	5,793,968	08/1998	GREGERSON et al.			
<i>ER</i>	5,794,059	08/1998	BARKER et al.			
<i>HR</i>	5,815,665	09/1998	TEPER et al.			
<i>IR</i>	5,815,793	09/1998	FERGUSON			
<i>JR</i>	5,826,014	10/1998	COLEY et al.			
<i>KR</i>	5,828,833	10/1998	BELVILLE et al.			
<i>LR</i>	5,844,594	12/1998	FERGUSON			
<i>FR</i>	5,845,074	12/1998	KOBATA			
<i>GR</i>	5,850,449	12/1998	MCMANIS			
<i>HR</i>	5,864,738	01/1999	KESSLER et al.			
<i>MR</i>	5,881,284	03/1999	KUBO			
<i>NR</i>	5,889,989	03/1999	ROBERTAZZI et al.			
<i>OR</i>	5,909,681	06/1999	PASSERA et al.			
<i>PR</i>	5,930,511	07/1999	HINSLEY			
<i>QR</i>	5,964,832	10/1999	KISOR			
<i>RR</i>	5,978,829	11/1999	CHUNG et al.			
<i>SR</i>	6,052,555	04/2000	FERGUSON			
<i>TR</i>	6,098,091	08/2000	KISOR			
<i>UR</i>	6,112,225	08/2000	KRAFT et al.			
<i>VR</i>	6,112,243	08/2000	DOWNS et al.			

## FOREIGN PATENT DOCUMENTS

	Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract	Translation Ready Available
<i>WR</i>	WO 98/26366	06/1998	WIPO	Ellis		
<i>XR</i>	0 853 279	07/1998	EUROPE	Nagaratna et al.		
<i>YR</i>	WO 94/01964	01/1994	WIPO	Craig		
<i>ZR</i>	WO 95/01060	01/1995	WIPO	Kramer et al.		
<i>AAR</i>	EP 0 840216A2	05/1998	Europe	Chung et al.		

OTHER (including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

*BBR* "Ein-Chip-Firewall," Elektroniknet Top News, XP-002164257

Examiner *p. o. n. h.* Date Considered: *9/30/05*

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified)  
To: U.S. Department of Commerce  
(PW FORM PAT-1449)  
Patent and Trademark Office

Atty. Dkt. No.	M#	Client Ref.
	0274516	GNC22US

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Applicant: ELLIS  
Application No.: Unknown

Date: August 24, 2001 Page 3 of 6 Examiner: Unknown *D.H.* Group Art Unit: *2152* Unknown

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

<i>07</i>	AR	"Means for Implementing Optical Interconnections for Parallel Processors," IBM Technical Disclosure Bulletin, April 1991, Vol. 33, No. 11, pages 56-58, XP 000110310			
	BR	Alexandrov et al., "SuperWeb: Research Issues in Java-Based Global Computing," Concurrency, Vol. 9, No. 6, June 1997, pages 535-553			
	CR	Baratloo et al., "Charlotte: Metacomputing on the Web," 9th International Conference on Parallel and Distributed Computing Systems (PDCS), 1996, pages 1-8			
	DR	Bevinakoppa et al., "Digital Image Compression on a Network of Transputers," Proc. of 5th Australian Transputer & OCCAM User Group Conference, IOS Press, Amsterdam, pp. 25-32 Date Unknown			
	ER	Blumofe, R. et al., "Scheduling Large-Scale Parallel Computations on Networks of Workstations," Proc. Of the 3rd IEEE Int'l Symp on High Performance Distributed Computing, pp. 96-105, Aug. 1994			
	FR	Brecht et al., "ParaWeb: Towards World-Wide Supercomputing," Proceedings of the Seventh ACM SIGOPS European Workshop, September 1996, 8 pages			
	GR	Brisbin, "Shopping for Internet access," MacUser, December 1994, v.10, p. 133(2)			
	HR	Brown et al., Special Edition Using Netscape™, 2 Second Edition, Que Corporation, 1995, Ch. 1-2			
	IR	Capello et al., "Market-Based Massively Parallel Internet Computing," Proceedings Third Working Conference on Massively Parallel Programming Models, 1998, pages 118-129			
	JR	Celenk, M. et al., "Parallel Task Execution in LANs and Performance Analysis," Proc. Of the 1995 IEEE 14th Annual Int'l Phoenix Conf. On Computers and Communications, pp. 423-429, Mar. 1995			
	KR	Chen, C. et al., "The DBC: Processing Scientific Data Over the Internet," Proc. Of the 16th Int'l. Conf. On Distributed Computing Systems, pp. 673-679, May 1996			
	LR	Clark, H. et al., "DAWGS-A Distributed Computer Server Utilizing Idle Workstations," Proc. Of the 5th Distributed Memory Computing Conf., IEEE, pp. 732-741, April 1990			
	MR	Fogg, C., "Survey of software and hardware VLC architectures," SPIE, vol. 2186, Image and Video Compression (1994), pp. 29-37			
	NR	Fox et al., "Towards Web/Java based High Performance Distributed Computing-an Evolving Virtual Machine," www.npac.syr.edu/projects/webospace/doc/hpdc5/paper, June 10, 1996, 11 pages			
	OR	Fox et al., "Towards Web/Java based High Performance Distributed Computing-an Evolving Virtual Machine," as presented at 5th IEEE International Symposium on High Performance Distributed Computing, August 6-9, 1996, 86 pages			
	PR	Fox, E., "Advances in Interactive Digital Multimedia Systems," Computer, Oct. 1991, pp. 9-21			
	QR	Gemmell et al., "Multimedia Storage Servers: a Tutorial," Computer, May 1995, pp. 40-49			
<i>07</i>	RR	Geoffrey C. Fox and Wojtek Furmanski, Petaops and Exaops: Supercomputing on the Web. "IEEE INTERNET COMPUTING," Vol. 1, Number 2 March-April 1997, pgs. 38-46.			

Examiner *D. D.H.* Date Considered: *9/30/05*

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified)  
To: U.S. Department of Commerce  
(PW FORM PAT-1449)  
Patent and Trademark Office

Atty. Dkt. No.	M#	Client Ref.
	0274516	GNC22US

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Applicant: ELLIS  
Application No.: ~~Unknown~~ 09/935,779

Date: August 24, 2001 Page 4 of 6 Examiner: Unknown Group Art Unit: Unknown

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

27	AR	Gibbs, "Bandwidth, Unlimited," Scientific American, January 1997, p. 41			
	BR	Gilder, "Angst and Awe on the Internet by George Gilder," Forbes ASAP, December 4, 1995			
	CR	Gilder, "The Bandwidth Tidal Wave," Forbes ASAP, December 5, 1994			
	DR	Hare et al., "Master the Complexities of Network Security," Internet Firewalls and Network Security, Second Edition, pp. 325-350 and 516 Date Unknown			
	ER	Hayes, "Computing Science: Collective Wisdom," American Scientist, March-April 1998, pages 1-8			
	FR	Kim, B., "ATM Network: Goals and Challenges," Communications of the ACM, Feb. 1995, vol. 38, No. 2, pp. 39-44, 109			
	GR	Kivanc Dincer and Geoffrey C. Fox, Building a World-Wide Virtual Machine Based on Web and HPCC Technologies, "STUDENT TECHNICAL PAPERS," <a href="http://www.supercomp.org/sc96/proceedings/SC96PROC/DINCER/INDEX.HTM">http://www.supercomp.org/sc96/proceedings/SC96PROC/DINCER/INDEX.HTM</a> pgs. 1-18. 1996			
	HR	Kremien, O., "Buying and Selling Computational Power Over the Network," Proc. Of the 4 <sup>th</sup> Int'l. Conf. On Computer Communications and Networks, IEEE, pp. 616-619, Sep. 1995			
	IR	Lindley, C., "JPEG-Like Image Compression, Part 2," Dr. Dobb's Journal, Aug. 1995, pp 62-66, 102-105			
	JR	Lindley, C., "JPEG-Like Image Compression, Part I," Dr. Dobb's Journal, Jul. 1995, pp. 50-58, 101-102			
	KR	Litzkow et al., "Condor-A Hunter of Idle Workstations," Proc. Of the 8 <sup>th</sup> Int'l. Conf. On Distributed Computing Systems, IEEE, pp. 104-111, Jun. 1998			
	LR	M. Hobbs and A. Goscinski, A Remote Process Creation and Execution Facility Supporting Parallel Execution on Distributed Systems, "IEEE 1996," pgs. 92-99.			
	MR	Markoff, "A New Standard to Govern PC's with Multiple Chips, Work Stations Mimicking Supercomputers," The New York Times, October 28, 1997			
	NR	McHenry et al., "An FPGA-Based Coprocessor for ATM Firewalls," Field-Programmable Custom Computing Machines 1997, 16-18 April 1997, pages 30-39, XP-002157218			
	OR	Morris, J., et al., "Fault Tolerant Networks of Workstations," Proc. Of the 3 <sup>rd</sup> Int'l. Conf. On High Performance Computing, IEEE, pp. 271-276, Dec. 1996			
	PR	N/A, "Aliens on your desktop," The Economist, April 18, 1998, p. 78			
	QR	N/A, "Cyber View World Wide Widgets," Scientific American, May 1997, p. 48			
	RR	N/A, "Special Report - Wonder Chips," Business Week, July 4, 1994			
	SR	N/A, "Supercomputers Divide and Conquer," The Economist, December 14, 1996			
	TR	Nass, R., "Hardware-software combo could simplify MPEG real-time video compression," Electronic Design, May 3, 1993, p. 36			
	UR	Nowatzky et al., "Are Crossbars Really Dead? The Case for Optical Multiprocessor Interconnect Systems," Proceedings of the Annual Symposium on Computer Architecture, ACM, vol. 22, June 1995, pages 106-115, XP 000687800			
	VR	Ozer, "Digital Video: Shot by Shot," PC Magazine, Apr. 11, 1995, pp. 104-107, 110			
	WR	Ozer, J., "Why MPEG Is Hot," PC Magazine, Apr. 11, 1995, pp. 130-131			

Examiner

Date Considered:

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified)  
To: U.S. Department of Commerce  
(PW FORM PAT-1449)  
Patent and Trademark Office

Atty.  
Dkt. No.

M#

Client Ref.

0274516

GNC22US

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

Applicant: ELLIS

Application No.: ~~Unknown~~ 09/935,779

Date: August 24, 2001

Page 5 of 6

Examiner: Unknown

Group Art Unit: Unknown

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

AR	Plotkin, "The Digital Compression Facility-A Solution to Today's Compression Needs," 1994 IEEE, pp 445-449			
BR	Qiao et al., "Time-Division Optical Communications in Multiprocessor Arrays," ACM, 1991, pages 644-653, XP 000337522			
CR	Rincon et al., "The Changing Landscape of System-on-a-Chip Design," MicroNews, Third Quarter 1999, www.chips.ibm.com/micronews/vol5_no3/rincon.html, pages 1-10, Vol. 5, No. 3			
DR	Sachs, M. et al., "LAN and I/O Convergence: A Survey of the Issues," Computer, Dec. 1994, pp. 24-32			
ER	Sakano et al., "A Three-Dimensional Mesh Multiprocessor System Using Board-to-Board Free-Space Optical Interconnects: COSINE-III," IEEE, 1993, pages 278-283, XP 000463415			
FR	Schroeder, E., "New offerings buoy MPEG as video standard," Desktop Computing, PC Week, May 8, 1995, pp. 1&29			
GR	Shen et al., "A Parallel Implementation of an MPEG1 Encoder: Faster than Real-Time!", Proc. Of SPIE Conf. On Digital Video Compression, San Jose, CA, Feb. 1995			
HR	Shiuan, J. et al., "Client-Server Based Ray-Tracer Using ASTRA: An Asynchronous RPC Mechanism," Computer Communications, vol. 19, No. 5, pp. 445-455, May 1996			
IR	Steven M. Bellovin and William R. Cheswick, Network Firewalls, "IEEE Communications Magazine 1994," pgs. 50-57.			
JR	Sullivan et al., "A New Major SETI Project Based on Project Serendip Data and 100,000 Personal Computers." Date Unknown <a href="http://setiathome.ssl.berkeley.edu/woody_paper.html">http://setiathome.ssl.berkeley.edu/woody_paper.html</a>			
KR	Szabo, B., et al., "Design considerations for JPEG Video and Synchronized Audio in a Unix Workstation Environment," USENIX-Summer '91, pp. 353-368			
LR	Taisuke Boku, Hiroshi Nakamura, Kisaburo Nakazawa, and Yoichi Iwasaki, The Architecture of Massively Parallel Processor CP-PACS, "IEEE 1997," pgs. 31-40.			
MR	Tandiyar et al., "Batron: Utilizing Idle Workstations for Large-Scale Computing," Summer 1996, pp. 41-48			
NR	Theimer et al., "Finding Idle Machines in a Workstation-Based Distributed System," IEEE Trans. On Software Engineering, vol. 15, No. 11, pp 1444-1458, Nov. 1989			
OR	Vetter, R., "ATM Concepts, Architectures, and Protocols," Communications of the ACM, Feb. 1995; vol. 38, No. 2, pp. 30-38, 109			
PR	Vetter, R., et al., "Issues and Challenges in ATM Networks," Communications of the ACM, 2/1995; vol. 38, No. 2, pp. 28-29			
QR	Waldspurger et al., "Spawn: A Distributed Computational Economy," IEEE Transactions on Software Engineering, Vol. 18, No. 2, February 1992, pages 103-117, XP-002124500			
RR	Welyi et al., "Java-to-Go - Itinerative Computing Using Java," September 10, 1996 <a href="http://ptolemy.eecs.berkeley.edu/dgm/javatools/java-to-go/">http://ptolemy.eecs.berkeley.edu/dgm/javatools/java-to-go/</a>			
SR	Yoon-Hwa Choi and Yu-Seok Kim, A Diagnostic Network for Massively Parallel Processing Systems, "IEEE 1994," pgs. 348-353.			

Examiner

D. D. M

Date Considered:

9/30/05

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified)  
To: U.S. Department of Commerce  
(PW FORM PAT-1449)  
Patent and Trademark Office

Atty. Dkt. No.	M#	Client Ref.
	0274516	GNC22US

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

Applicant: ELLIS
Application No.: <del>Unknown</del> 09/935,779

Date: August 24, 2001	Page 6 of 6	Examiner: Unknown	Group Art Unit: Unknown
-----------------------	-------------	-------------------	-------------------------

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)					
5	AR	Yoshida, J., "MPEG-2 encoders make show of force at NAB," Electronic Engineering Times, Apr. 10, 1995	—	—	
25	BR	Yu, Y. et al., "Software Implementation of MPEG-II Video Encoding Using Socket Programming in LAN," SPIE vol. 2187, pp. 229-240, 1994	—	—	
	CR				
	DR				
	ER				
	FR				
	GR				
	HR				
	IR				
	JR				
	KR				
	LR				
	MR				
	NR				
	OR				
	PR				
	QR				
	RR				
	SR				
	TR				
	UR				
	VR				
	WR				
	XR				
	YR				
	ZR				
	AAR				
	BBR				
	CCR				
	DDR				
	EER				
	FFR				
	GGR				
	HHR				
	IIR				

Examiner: D. P. N. H.	Date Considered: 9/20/05
-----------------------	--------------------------

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.